From: R4LIMS
To: Lattimore, Leigh

Cc: Turner, Nardina; Lkrebs@otie.com; Saskowski, Ronald; gkowalski@otie.com; Wellborn, Floyd; Aker, Sandra

Subject: R4 LIMS Results: Project 20-0186, E200602 TMTL 03 03 20 0843

 Date:
 Tuesday, March 3, 2020 10:45:52 PM

 Attachments:
 E200602 TMTL FINAL 03 03 20 0843.PDF

E200602 TMTL FINAL 03 03 20 0843 - 20-0186 - WESTSIDE LEAD 03-03-2020.GAN000407160.Dat

On Tuesday, March 3, 2020, results for the following were released by the Region 4 Laboratory:

Analyses:

Total Metals (TMTL)

Project Number: 20-0186
Project Name: Westside Lead

City: Atlanta County: Fulton State: GA

These results were reported by:

Floyd Wellborn (E-mail: Wellborn.Floyd@epa.gov)

If you have questions concerning the laboratory results, please feel free to contact the laboratory personnel shown above as having reported the data. We also encourage you to provide feedback to the Region 4 laboratory by filling out our online (*EPA internal network only*) <u>Customer Survey Form</u>.

These results are for the following Sample Type(s):

Soil (Surface Soil)

PDF DATA RESULTS REPORT FILE ATTACHMENT:

An Adobe Acrobat PDF file is attached to this message that contains final results for the analyses as indicated in the data report.

DATA EXPORT FILE ATTACHMENT:

If attached, data export files will be tab delimited ASCII text files contained in a file that has been formatted using the ZIP archiving format (.Dat extension). Please consult your local computer support personnel if you have problems extracting these files. If you have questions about the data file formats and the information contained in these files, or if you would like to request export files for previously reported data, use the contact information shown below to contact the appropriate person with your concerns. To generate export files for previously reported data we'll need the name of the PDF report file that was attached to the original transmittal message.

For questions concerning this message and attachments, or any other LIMS or data reporting issues, please call the LSASD PC Hotline at 706-355-8825 or send an email to r4lims@epa.gov.

SAMPLE DISPOSAL POLICY:

Due to limited space for long term sample storage, LSB's policy is to dispose of

samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

CONFIDENTIALITY NOTICE

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700 D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

March 3, 2020

MEMORANDUM

SUBJECT: FINAL Analytical Report

Project: 20-0186, Westside Lead

FROM: Floyd Wellborn

LSB Inorganic Chemistry Section Chief

THRU: Sandra Aker, Chief

Laboratory Services Branch

TO: Leigh Lattimore

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Total Metals (TMTL)		
Total Metals	EPA 200.8 (Soil)	ISO
Total Metals	EPA 6010 (Soil)	ISO

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700 D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Sample Disposal Policy

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cc: Nardina Turner

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

SAMPLES INCLUDED IN THIS REPORT

Project: 20-0186, Westside Lead

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WSL-1002C	E200602-01	Surface Soil	1/23/20 09:35	2/4/20 10:20
WSL-1002Cdup	E200602-02	Surface Soil	1/23/20 09:35	2/4/20 10:20
WSL-1006A	E200602-03	Surface Soil	1/28/20 10:15	2/4/20 10:20
WSL-1032B	E200602-04	Surface Soil	1/28/20 13:47	2/4/20 10:20
WSL-1032C	E200602-05	Surface Soil	1/28/20 13:59	2/4/20 10:20
WSL-1067B	E200602-06	Surface Soil	1/28/20 14:27	2/4/20 10:20
WSL-1067C	E200602-07	Surface Soil	1/28/20 14:39	2/4/20 10:20
WSL-1077C	E200602-08	Surface Soil	1/28/20 11:22	2/4/20 10:20
WSL-1090C	E200602-09	Surface Soil	1/28/20 13:17	2/4/20 10:20

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700 D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

DATA QUALIFIER DEFINITIONS

None

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

> Refer to the certificate and scope of accreditation AT-1644 at: http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR The EPA Region 4 Laboratory has not requested accreditation for this test.

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1002C Lab ID: E200602-01
Station ID: WSL1002C Matrix: Surface Soil

Date Collected: 1/23/20 9:35

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	7.1	mg/kg dry	0.20	2/12/20 14:22	2/24/20 13:34	EPA 200.8
7439-92-1	Lead	620	mg/kg dry	9.8	2/12/20 14:20	2/19/20 16:06	EPA 6010

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1002Cdup Lab ID: E200602-02
Station ID: WSL1002C Matrix: Surface Soil

Date Collected: 1/23/20 9:35

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	6.7	mg/kg dry	0.20	2/12/20 14:22	2/24/20 13:38	EPA 200.8
7439-92-1	Lead	830	mg/kg dry	10	2/12/20 14:20	2/19/20 16:10	EPA 6010

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1006A Lab ID: E200602-03
Station ID: WSL1006A Matrix: Surface Soil

Date Collected: 1/28/20 10:15

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	7.3	mg/kg dry	0.20	2/12/20 14:22	2/24/20 13:41	EPA 200.8
7439-92-1	Lead	720	mg/kg dry	10	2/12/20 14:20	2/19/20 16:14	EPA 6010

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1032B Lab ID: E200602-04
Station ID: WSL1032B Matrix: Surface Soil

Date Collected: 1/28/20 13:47

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.6	mg/kg dry	0.20	2/12/20 14:22	2/24/20 13:45	EPA 200.8
7439-92-1	Lead	350	mg/kg dry	10	2/12/20 14:20	2/19/20 16:17	EPA 6010

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1032C Lab ID: E200602-05
Station ID: WSL1032C Matrix: Surface Soil

Date Collected: 1/28/20 13:59

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.3	mg/kg dry	0.20	2/12/20 14:22	2/24/20 13:49	EPA 200.8
7439-92-1	Lead	370	mg/kg dry	9.9	2/12/20 14:20	2/19/20 16:21	EPA 6010

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1067B

Station ID: WSL1067B

Lab ID: E200602-06

Matrix: Surface Soil

Date Collected: 1/28/20 14:27

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.5	mg/kg dry	0.20	2/12/20 14:22	2/24/20 13:52	EPA 200.8
7439-92-1	Lead	390	mg/kg dry	9.9	2/12/20 14:20	2/19/20 16:24	EPA 6010

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D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1067C Lab ID: E200602-07
Station ID: WSL1067C Matrix: Surface Soil

Date Collected: 1/28/20 14:39

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.0	mg/kg dry	0.20	2/12/20 14:22	2/24/20 14:03	EPA 200.8
7439-92-1	Lead	670	mg/kg dry	9.9	2/12/20 14:20	2/19/20 16:28	EPA 6010

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D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1077C Lab ID: E200602-08
Station ID: WSL1077C Matrix: Surface Soil

Date Collected: 1/28/20 11:22

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	4.8	mg/kg dry	0.20	2/12/20 14:22	2/24/20 14:06	EPA 200.8
7439-92-1	Lead	460	mg/kg dry	10	2/12/20 14:20	2/19/20 16:31	EPA 6010

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D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals

Project: 20-0186, Westside Lead

Sample ID: WSL-1090C Lab ID: E200602-09
Station ID: WSL1090C Matrix: Surface Soil

Date Collected: 1/28/20 13:17

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.7	mg/kg dry	0.20	2/12/20 14:22	2/24/20 14:10	EPA 200.8
7439-92-1	Lead	230	mg/kg dry	10	2/12/20 14:20	2/19/20 16:35	EPA 6010

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002023 - M 200.2 Metals Soil										
Blank (2002023-BLK1)				Prepared: (02/12/20 Ar	nalyzed: 02	2/19/20			
EPA 6010										
Lead	U	2.0	mg/kg dry							τ
Blank (2002023-BLK2)				Prepared: (02/12/20 Ar	nalyzed: 02	2/19/20			
EPA 6010										
Lead	U	2.0	mg/kg dry							Ţ
LCS (2002023-BS1)				Prepared: (02/12/20 Ar	nalyzed: 02	2/19/20			
EPA 6010										
Lead	94.148	2.0	mg/kg dry	100.00		94.1	85-115			
Matrix Spike (2002023-MS1)	Sou	rce: E200602	2-09	Prepared: (02/12/20 Ar	nalyzed: 02	2/19/20			
EPA 6010										
Lead	323.69	10	mg/kg dry	99.701	233.32	90.6	75-125			
Matrix Spike Dup (2002023-MSD1)	Sou	ırce: E200602	-09	Prepared: (02/12/20 Ar	nalyzed: 02	2/19/20			
EPA 6010										
Lead	322.06	10	mg/kg dry	99.880	233.32	88.9	75-125	0.504	20	
MRL Verification (2002023-PS1)				Prepared: (02/12/20 Ar	nalyzed: 02	2/19/20			
EPA 6010										
Lead	1.9418	2.0	mg/kg dry	2.0000		97.1	70-130			MRL-3,
Batch 2002024 - M 200.2 Metals Soil										
Blank (2002024-BLK1)				Prepared: 0	02/12/20 Ar	nalyzed: 02	2/24/20			
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							Ţ
Blank (2002024-BLK2)				Prepared: (02/12/20 Ar	nalyzed: 02	2/24/20			
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							τ
LCS (2002024-BS1)				Prepared: 0	02/12/20 Ar	nalyzed: 02	2/24/20			
EPA 200.8										
Arsenic	46.546	1.2	mg/kg dry	50.000		93.1	85-115			

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700 D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 2002024 - M 200.2 Metals Soil											
Matrix Spike (2002024-MS1)	Source: E200602-09			Prepared: 02/12/20 Analyzed: 02/24/20							
EPA 200.8 Arsenic	40.012	1.2	mg/kg dry	49.850	1.6560	76.9	70-130				
Matrix Spike Dup (2002024-MSD1)	Source: E200602-09			Prepared: 02/12/20 Analyzed: 02/24/20							
EPA 200.8 Arsenic	42.865	1.2	mg/kg dry	49.940	1.6560	82.5	70-130	6.89	20		
MRL Verification (2002024-PS1)		Prepared: 02/12/20 Analyzed: 02/24/20									
EPA 200.8 Arsenic	0.11549	0.10	mg/kg dry	0.10000		115	65-135			MRL-3	

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Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700 D.A.R.T. Id: 20-0186

Project: 20-0186, Westside Lead - Reported by Floyd Wellborn

Notes and Definitions for QC Samples

U The analyte was not detected at or above the reporting limit.

MRL-3 MRL verification for Soil matrix

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